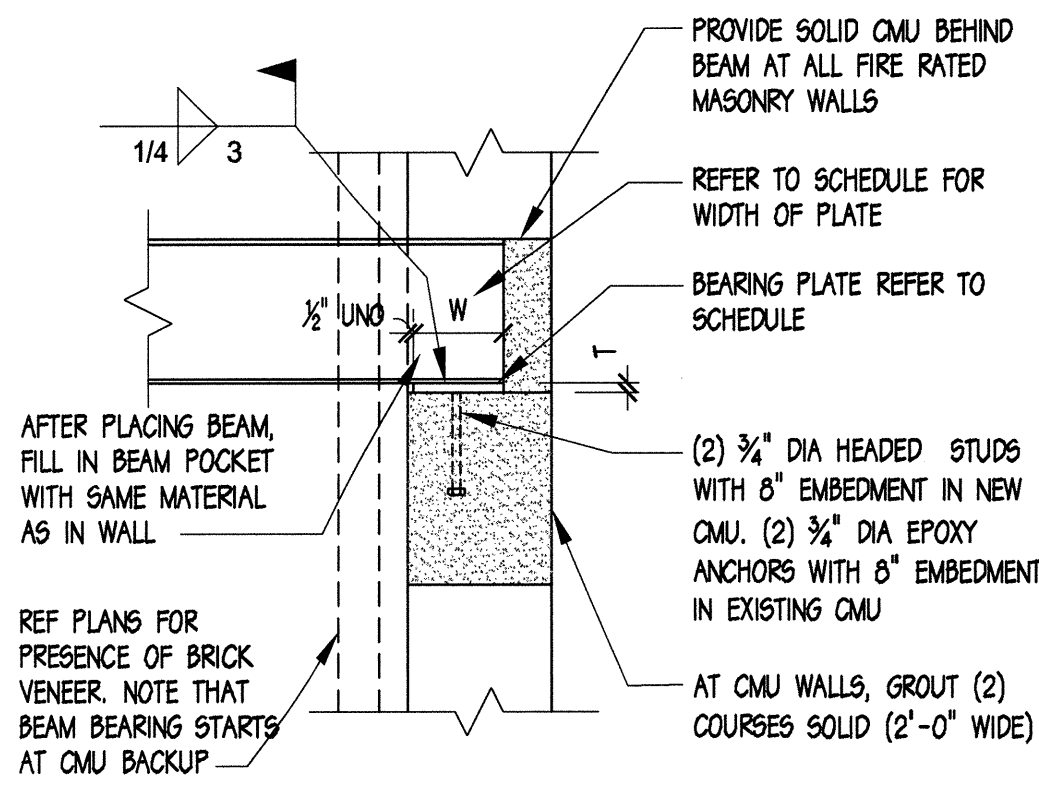


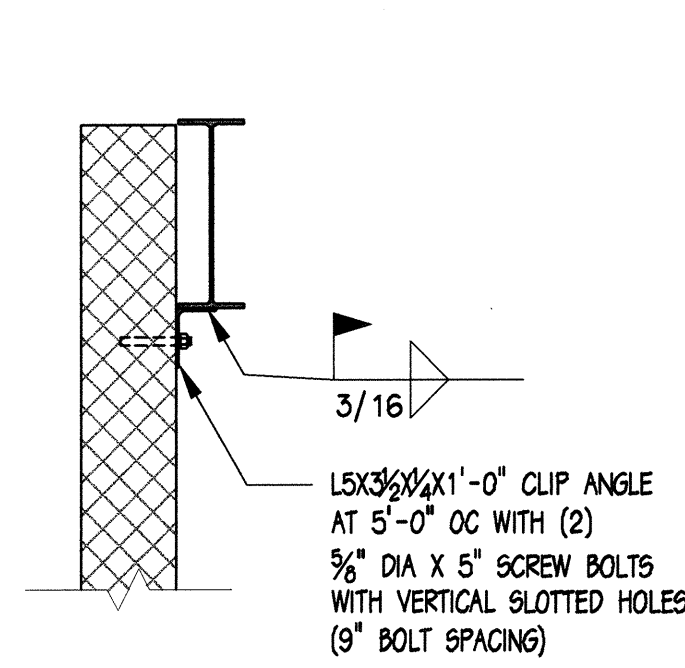
TYPICAL PLAN DETAIL AT BEARING PLATE



TYPICAL SECTION AT BEARING PLATE WITH HEADED STUDS

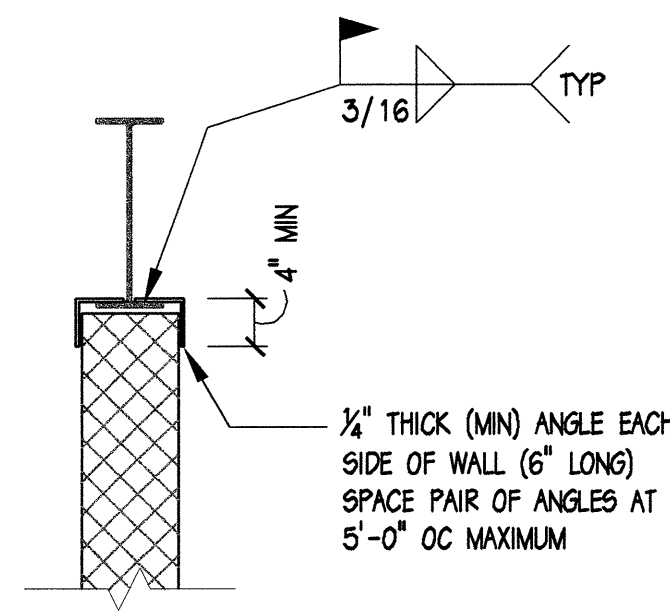
3/4" = 1'-0"

MARK	SIZE (TYPICAL)	COMMENTS
BP-A	PL3/4X7X1'-0"	
BP-B	PL1/2X7X1'-6"	
BP-C	PL3/4X11X1'-1"	



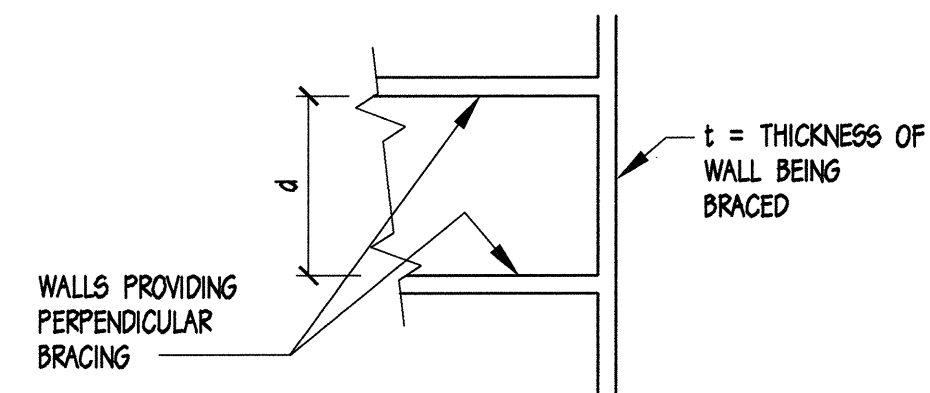
PARTITION WALL BRACING WHERE WALL PASSES CLOSE BY BEAM

3/4" = 1'-0"



PARTITION WALL BRACING WHERE WALL IS CENTERED BELOW BEAM

3/4" = 1'-0"



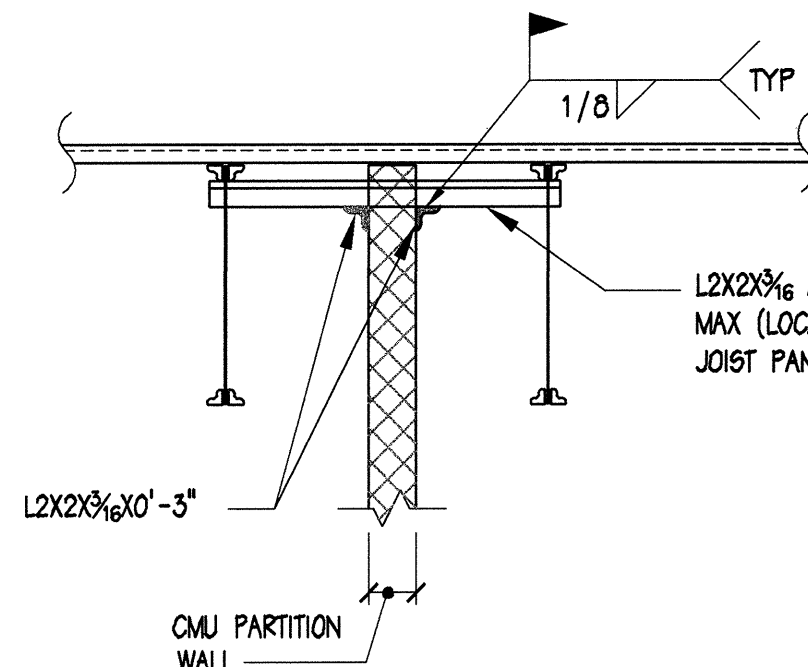
LATERAL BRACING AT THE TOP OF NEW NON-LOAD BEARING MASONRY PARTITION WALLS

NOMINAL WALL THICKNESS "t" (INCHES)	MAXIMUM DISTANCE BETWEEN PERPENDICULAR BRACING WALLS "d" (FEET)
4"	9'-0"
6"	13'-6"
8"	18'-0"
10"	21'-6"
12"	25'-0"

WALLS WITH CONTROL JOINTS OR OPENINGS GREATER THAN 6'-0" TALL LOCATED IN THEM MAY NOT BE BRACED BY PERPENDICULAR WALLS. PROVIDE BRACING PER THESE TYPICAL DETAILS.

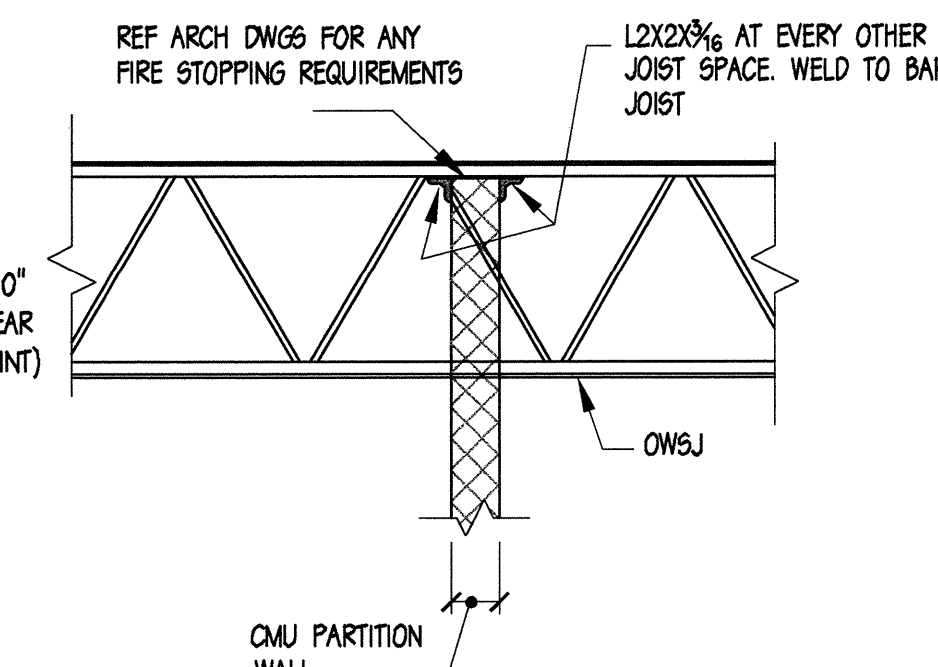
NOTES:

- BRACE ALL INTERIOR NON-LOAD BEARING MASONRY PARTITION WALLS IN ACCORDANCE WITH ONE OF THESE TYPICAL DETAILS UNLESS INDICATED OTHERWISE IN CONTRACT DOCUMENTS. REFER TO STRUCTURAL DRAWINGS FOR CONNECTION DETAILS AT PARTITION WALLS USED AS SHEAR WALLS.
- PARTITION WALLS MAY ALTERNATIVELY BE BRACED BY PERPENDICULAR WALLS IF DISTANCE BETWEEN PERPENDICULAR WALLS COMPLIES WITH THE TABLE ABOVE.
- REFER TO ARCHITECTURAL DRAWINGS FOR PARTITION TYPES AND CLOSURE/FIRE SAFING CONDITIONS AT TOP OF WALL.



WALL PARALLEL TO JOIST/UP TO DECK

3/4" = 1'-0"

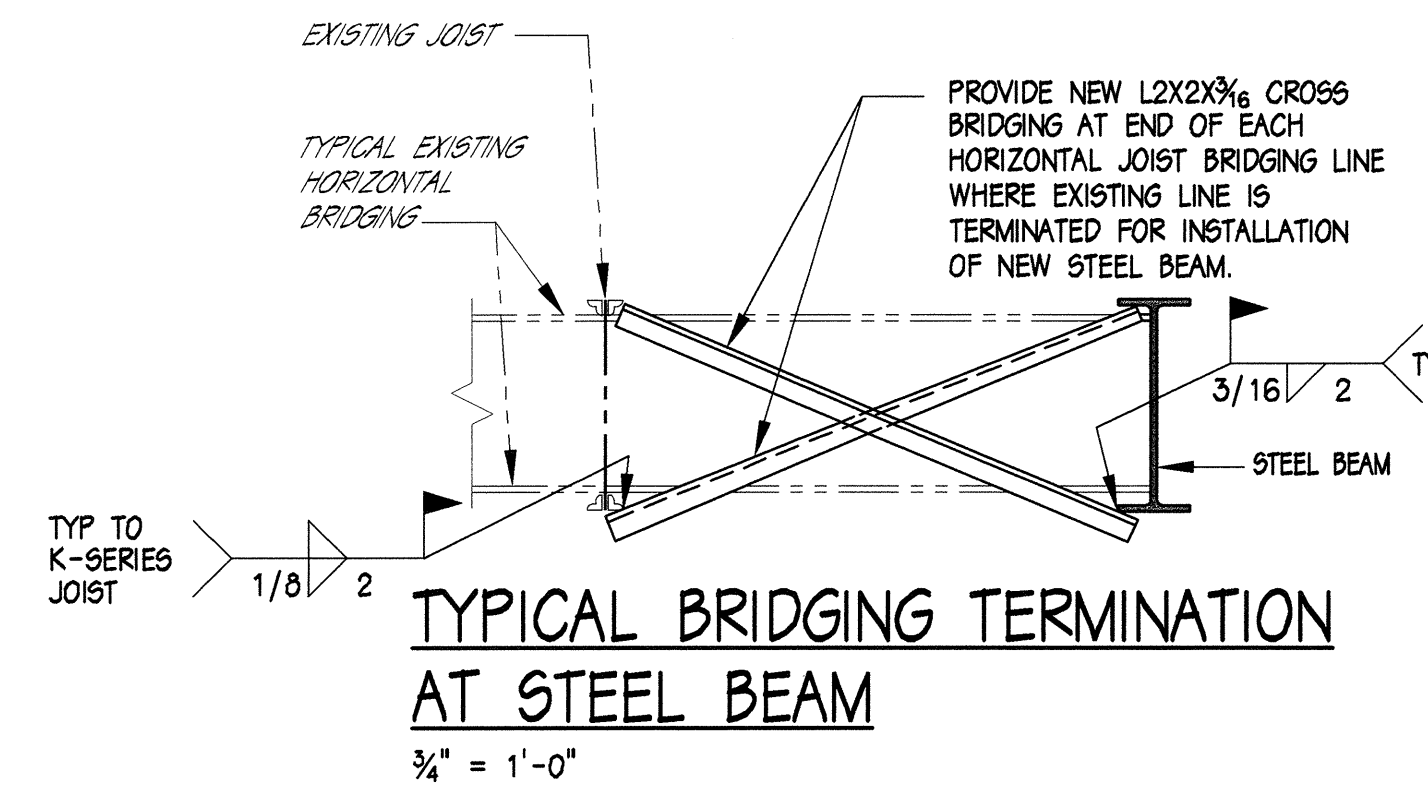


WALL PERPENDICULAR TO JOIST/UP TO DECK

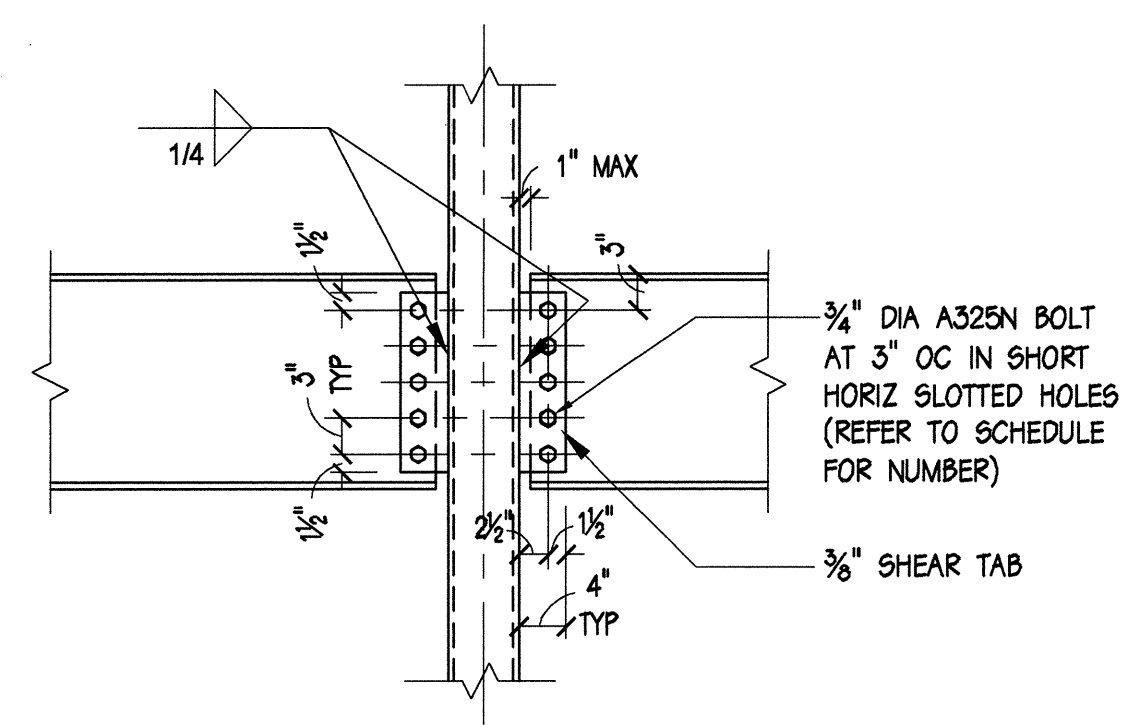
3/4" = 1'-0"

BOLTING SCHEDULE		
BEAM SIZE	# OF BOLTS IN SINGLE SHEAR CONN	# OF BOLTS IN DOUBLE ANGLE CONN
WB	2	2 ANGLES X 2 BOLTS = 4 TOTAL
W10	2	2 ANGLES X 2 BOLTS = 4 TOTAL
W12	3	2 ANGLES X 3 BOLTS = 6 TOTAL
W14	3	2 ANGLES X 3 BOLTS = 6 TOTAL
W16	4	2 ANGLES X 4 BOLTS = 8 TOTAL
W18	5	2 ANGLES X 4 BOLTS = 8 TOTAL
W21	6	2 ANGLES X 5 BOLTS = 10 TOTAL
W24	7	2 ANGLES X 5 BOLTS = 10 TOTAL

- NOTES:**
- BOLTS ARE 3/4" DIA ASTM A325N UNF.
 - BOLT HOLES FOR SINGLE SHEAR CONN OR SINGLE ANGLE CONN SHALL BE HORIZ SHORT-SLOTTED HOLES UNF - PROVIDE STD ROUND HOLES AT FULL HEIGHT STIFF PLATES.
 - SINGLE SHEAR CONN SHALL BE 3/8" SHEAR TAB OR 3/8" FULL HEIGHT STIFF PLATE AS INDICATED IN DETAILS.
 - STANDARD DOUBLE ANGLE THICKNESS SHALL BE 3/8" MINIMUM. USE SHORT HORIZ SLOTTED HOLES IN ANGLE.
 - WHERE SLIP CRITICAL CONNECTION OR FULLY PRE-TENSIONED BOLTS ARE INDICATED, USE TENSION CONTROL BOLTS (TWIST-OFF TYPE).

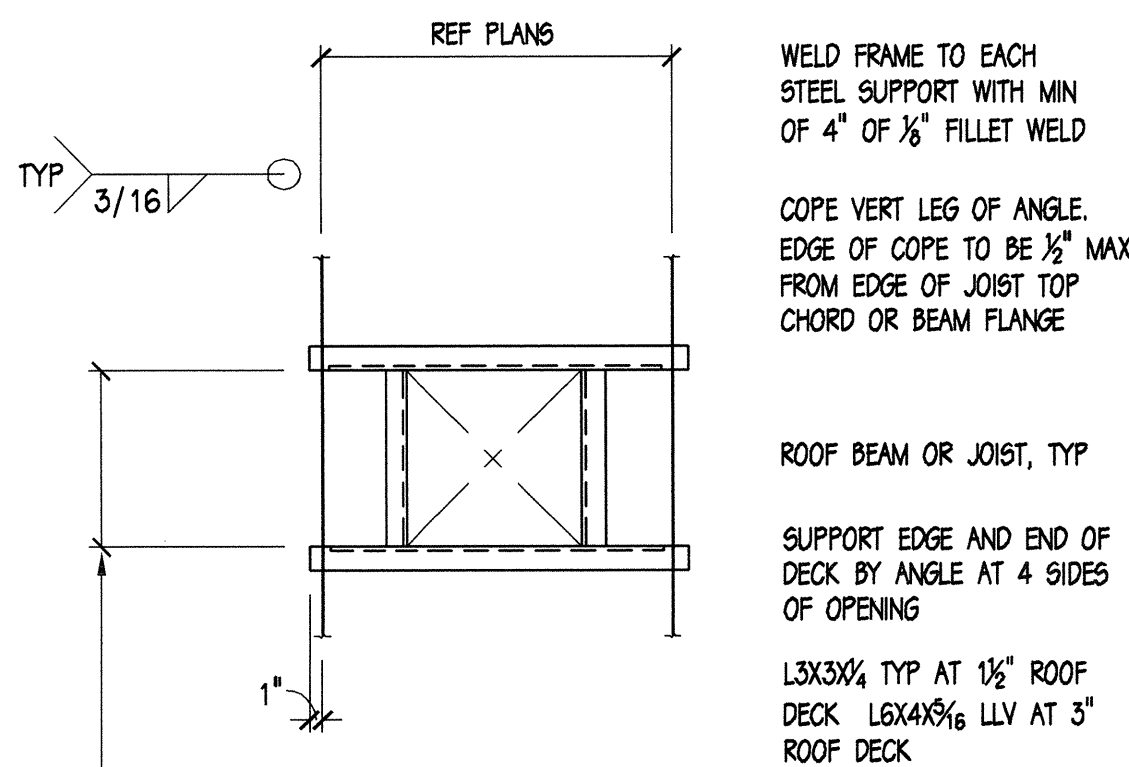


TYPICAL BRIDGING TERMINATION AT STEEL BEAM



TYPICAL BEAM TO HSS COLUMN CONNECTION

3/4" = 1'-0"

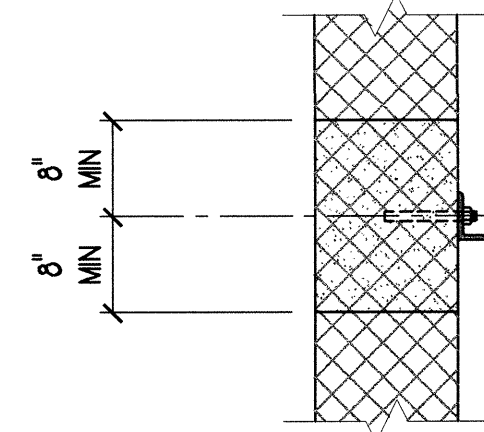


WHERE THIS DIMENSION OF ROOF OPENING IS 10" OR LESS, AND THE WEIGHT OF THE EQUIPMENT BEARING AT THE OPENING IS LESS THAN 150 POUNDS, ANGLE FRAME INDICATED IS NOT REQUIRED. DECK REIN SHALL CONSIST OF A 20" SQUARE, 14 GAUGE PLATE, SCREW PLATE TO DECK. WHERE THIS OPENING IS 3/4" OR LESS AND THROUGH THE TOP OF THE DECK BETWEEN RIBS AND NO RIBS ARE CUT, NO REIN IS REQUIRED.

NOTE: THIS "TYPICAL ROOF OPENING FRAMING DETAIL" APPLIES TO ALL OPENINGS IN THE ROOF DECK THAT MAY BE INDICATED ON DRAWINGS OR NOT INDICATED AND ARE CUT IN THE FIELD AS PART OF THE CONSTRUCTION. THE CONTRACTOR SHALL REVIEW STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO DETERMINE LOCATION AND SIZES OF OPENINGS THAT CAN BE DETERMINED FROM THE DRAWINGS. THE CONTRACTOR SHALL COORDINATE THE REQUIRED OPENING SIZES FOR EACH REQUIRED PENETRATION AND PROVIDE DECK REINFORCEMENT OR SUPPORT IN ACCORDANCE WITH THIS DETAIL.

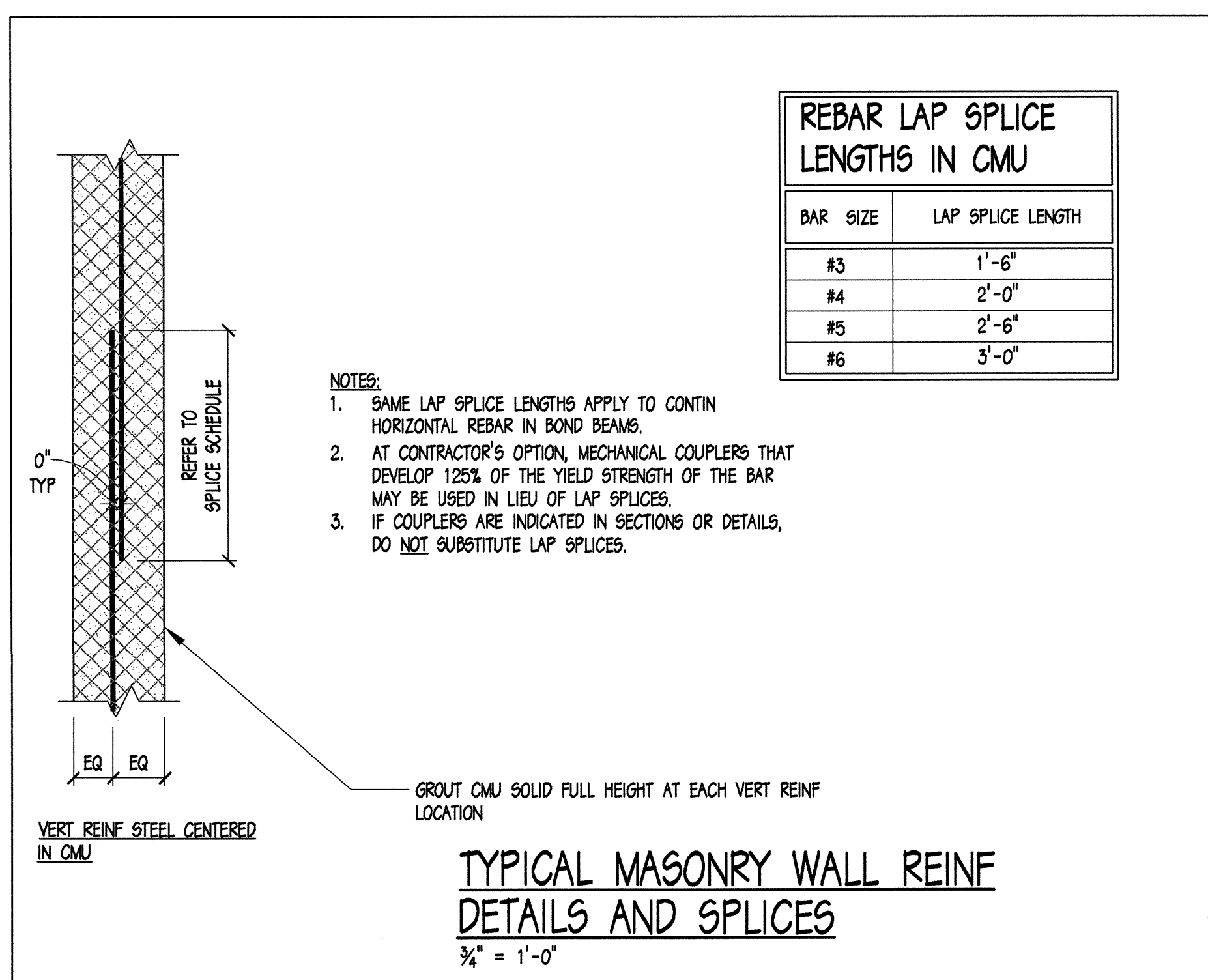
TYPICAL ROOF OPENING FRAMING DETAIL

NO SCALE



TYPICAL WALL GROUTING AT POST-INSTALLED ANCHORS

3/4" = 1'-0"

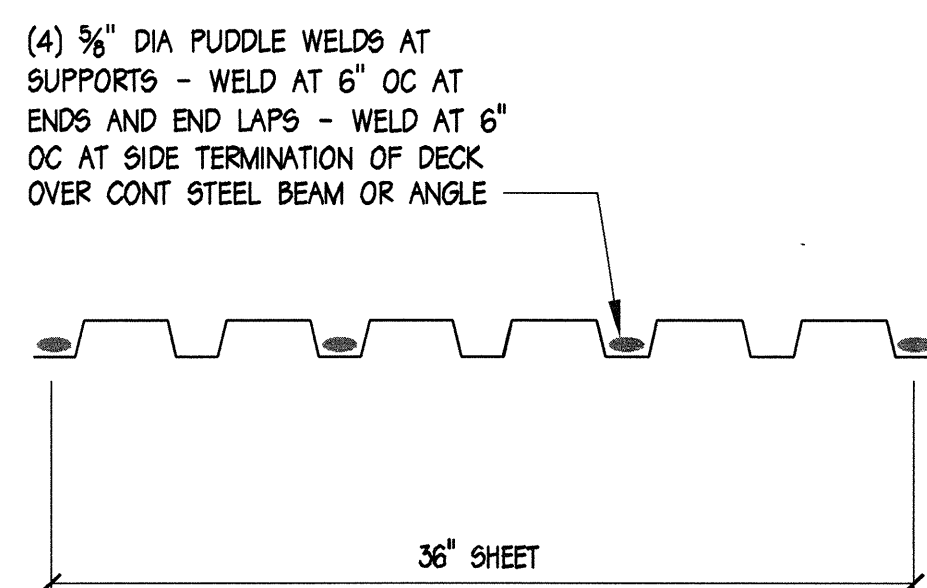


REBAR LAP SPLICE LENGTHS IN CMU	
BAR SIZE	LAP SPLICE LENGTH
#3	1'-6"
#4	2'-0"
#5	2'-6"
#6	3'-0"

- NOTES:**
- SAME LAP SPLICE LENGTHS APPLY TO CONTIN HORIZONTAL REBAR IN BOND BEAMS.
 - AT CONTRACTOR'S OPTION, MECHANICAL COUPLERS THAT DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR MAY BE USED IN LIEU OF LAP SPLICES.
 - IF COUPLERS ARE INDICATED IN SECTIONS OR DETAILS, DO NOT SUBSTITUTE LAP SPLICES.

TYPICAL MASONRY WALL REIN DETAILS AND SPLICES

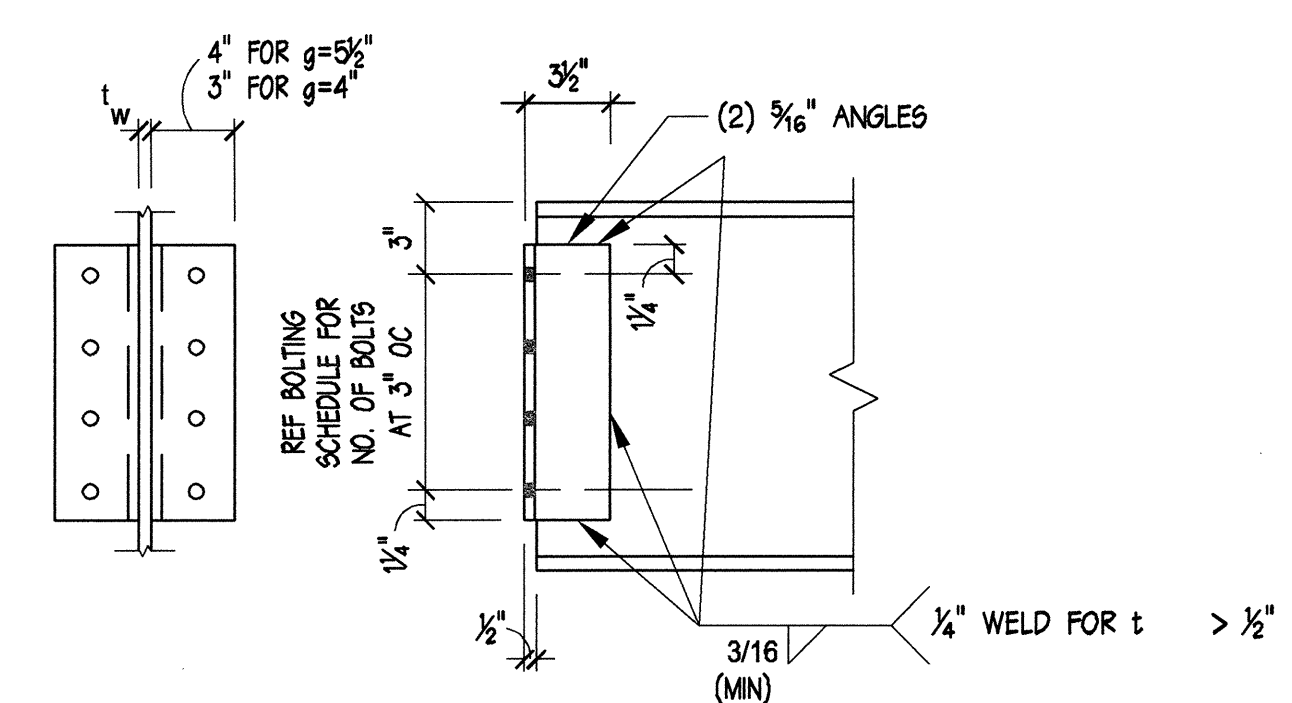
3/4" = 1'-0"



TYPICAL 1 1/2" STEEL ROOF DECK ATTACHMENT

1/2" = 1'-0"

NOTE: ATTACHMENT PATTERN APPLIES TO BOTH TYPE 'F' ROOF DECK AT GLENN AND TYPE 'B' AT WARSAW.



TYPICAL DOUBLE ANGLE CONNECTION

3/4" = 1'-0"

- DETAIL APPLIES AT WIDE FLANGE BEAM CONNECTIONS TO COLUMNS AND OTHER WIDE FLANGE BEAMS.
- AT BEAM TO GIRDER CONNECTIONS, PROVIDE ERECTION SEAT ANGLE FOR ONE BEAM WHERE MEMBERS FRAME OPPOSITE EACH OTHER AND USE SAME NUMBER OF BOLTS.
- REFER TO FRAMED BEAM CONNECTION SCHEDULE FOR REQUIRED NUMBER OF ROWS OF BOLTS.